

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/30883

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F9/445

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 835 761 A (BRUCE NIGEL ET AL) 10 November 1998 (1998-11-10)	1-5, 8, 13, 15-20, 25, 27-29
Y	column 3, line 39 - line 48 column 4, line 48 column 6, line 9 - line 24 column 16, line 22-45 column 17, line 12 - line 43 column 17, line 63 - column 18, line 2 figure 16 --- -/--	6, 7, 9-12, 14, 21-24, 26

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *8* document member of the same patent family

Date of the actual completion of the international search

28 January 2004

Date of mailing of the international search report

05/02/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 260 156 B1 (GARVIN P KEITH ET AL) 10 July 2001 (2001-07-10) column 2, line 35 - line 37 column 5, line 19 - line 20 column 6, line 5-38 figure 6 ---	6,9,10, 21,22
Y	US 5 150 473 A (ZULCH RICHARD C) 22 September 1992 (1992-09-22) column 5, line 20 - line 24 ---	7,11,12, 14,23, 24,26
A	US 5 404 485 A (BAN AMIR) 4 April 1995 (1995-04-04) column 1, line 8,9 column 3, line 64 -column 4, line 5 ---	6,9,10, 21,22
A	US 5 930 504 A (GABEL DOUGLAS L) 27 July 1999 (1999-07-27) column 2, line 66 - line 67 column 5, line 19 - line 23 -----	6,7, 9-12,14, 22-24,26

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Information on patent family members

International Application No

PCT/US 02/30883

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5835761	A	10-11-1998	GB 2290890 A	10-01-1996
			DE 19525105 A1	25-01-1996
			FR 2722015 A1	05-01-1996
			JP 8016408 A	19-01-1996

US 6260156	B1	10-07-2001	NONE	

US 5150473	A	22-09-1992	NONE	

US 5404485	A	04-04-1995	AU 6269994 A	26-09-1994
			CN 1098526 A ,B	08-02-1995
			DE 69414556 D1	17-12-1998
			DE 69414556 T2	06-05-1999
			EP 0688450 A1	27-12-1995
			FI 954235 A	08-11-1995
			IL 108766 A	05-12-1996
			JP 8510072 T	22-10-1996
			JP 2003085037 A	20-03-2003
			WO 9420906 A1	15-09-1994
			ZA 9401446 A	26-09-1994

US 5930504	A	27-07-1999	AU 3511897 A	10-02-1998
			WO 9803909 A1	29-01-1998

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